1) C
2) C
3) d
4) d
5) C
6) d
7) d
8) C
9) d
10) d
11) N/A
12) a

16)
$$\begin{array}{r|rrrrr} -2 & 6 & -6 & 5 & -12 & 1 \\ & \downarrow & -12 & 36 & -82 & 188 \\ \hline & 6 & -18 & 41 & -94 & 189 \end{array}$$

$6x^3 - 18x^2 + 41 - 94 \quad r189$

17) $f(-\frac{1}{2}) = -2$

$6(-\frac{1}{2})^4 + n(-\frac{1}{2})^3 - 14(-\frac{1}{2})^2 + 2 = -2$

$\frac{6}{16} + \frac{-n}{8} - \frac{14}{4} + 2 = -2$

$\frac{3}{8} - \frac{n}{8} - \frac{28}{8} = -4$

$n - 25 = -32$

$n = -7$

19) V.A.'s $-1, 1$ ∴ zeros are $-1, 1$

$y = A(x+1)(x-1)$

$y = A(x^2-1)$

Reciprocal: $\frac{1}{A(x^2-1)} = y$

pt $(0, 1)$

$1 = \frac{1}{A(0^2-1)}$

$= \frac{1}{-1(A)}$

$A = -1$

∴ $y = \frac{-1}{x^2-1}$

20) $x(12-2x)(15-2x) = 162$